

Title (en)
SOUNDPROOF STRUCTURE AND OPENING STRUCTURE

Title (de)
SCHALLDICHTE STRUKTUR UND ÖFFNUNGSSTRUKTUR

Title (fr)
STRUCTURE D'INSONORISATION ET STRUCTURE D'OUVERTURE

Publication
EP 3506253 A4 20190828 (EN)

Application
EP 17843442 A 20170814

Priority
• JP 2016163007 A 20160823
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Abstract (en)
[origin: EP3506253A1] There are provided a soundproof structure and an opening structure capable of suppressing degradation of sound absorbing characteristics due to resonance vibration. A micro perforated plate having a plurality of through-holes passing therethrough in the thickness direction and a first frame body, which is disposed in contact with one surface of the micro perforated plate and has a plurality of hole portions, are provided. The opening diameter of the hole portion of the first frame body is larger than the opening diameter of the through-hole of the micro perforated plate. The opening ratio of the hole portion of the first frame body is larger than the opening ratio of the through-hole of the micro perforated plate. The resonance frequency of the micro perforated plate in contact with the first frame body is higher than the audible range.

IPC 8 full level
G10K 11/16 (2006.01); **G10K 11/162** (2006.01)

CPC (source: EP US)
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Citation (search report)
• [Y] US 4850093 A 19890725 - PARENTE CHARLES A [US]
• [Y] US 2001050197 A1 20011213 - WOOD KENNETH BRIAN [US]
• [Y] EP 1657708 A1 20060517 - RION CO [JP], et al
• [Y] US 2005178489 A1 20050818 - BELLEGUIC YANN [FR], et al
• [Y] US 4787473 A 19881129 - FUCHS HELMUT V [DE], et al
• See references of WO 2018037959A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 17843442 A 20170814; CN 201780051371 A 20170814; JP 2017029278 W 20170814; JP 2018535613 A 20170814; US 201916283042 A 20190222